CHAPTER 4

POINT AND NONPOINT SOURCE CHARACTERIZATION OF THE TENNESSEE WESTERN VALLEY (KY LAKE) WATERSHED

4.1. BACKGROUND. This chapter is organized by HUC-10 subwatershed, and the description of each subwatershed is divided into four parts:

i. General description of the subwatershed
ii. Description of point source contributions
ii.a. Description of facilities discharging to water bodies listed on the 2002 303(d) list
iii. Description of nonpoint source contributions

The Tennessee portion of the Tennessee Western Valley (KY Lake) Watershed (HUC 06040005) has been delineated into eight HUC 10-digit subwatersheds.

Information for this chapter was obtained from databases maintained by the Division of Water Pollution Control or provided in the WCS (Watershed Characterization System) data set. The WCS used was version 2.0 (developed by Tetra Tech, Inc for EPA Region 4) released in 2003.

WCS integrates with ArcView® v3.x and Spatial Analyst® v1.1 to analyze user-delineated (sub)watersheds based on hydrologically connected water bodies. Reports are generated by integrating WCS with Microsoft® Word. Land Use/Land Cover information from 1992 MRLC (Multi-Resolution Land Cover) data are calculated based on the proportion of county-based land use/land cover in user-delineated (sub)watersheds. Nonpoint source data in WCS are based on agricultural census data collected 1992–1998; nonpoint source data were reviewed by Tennessee NRCS staff.

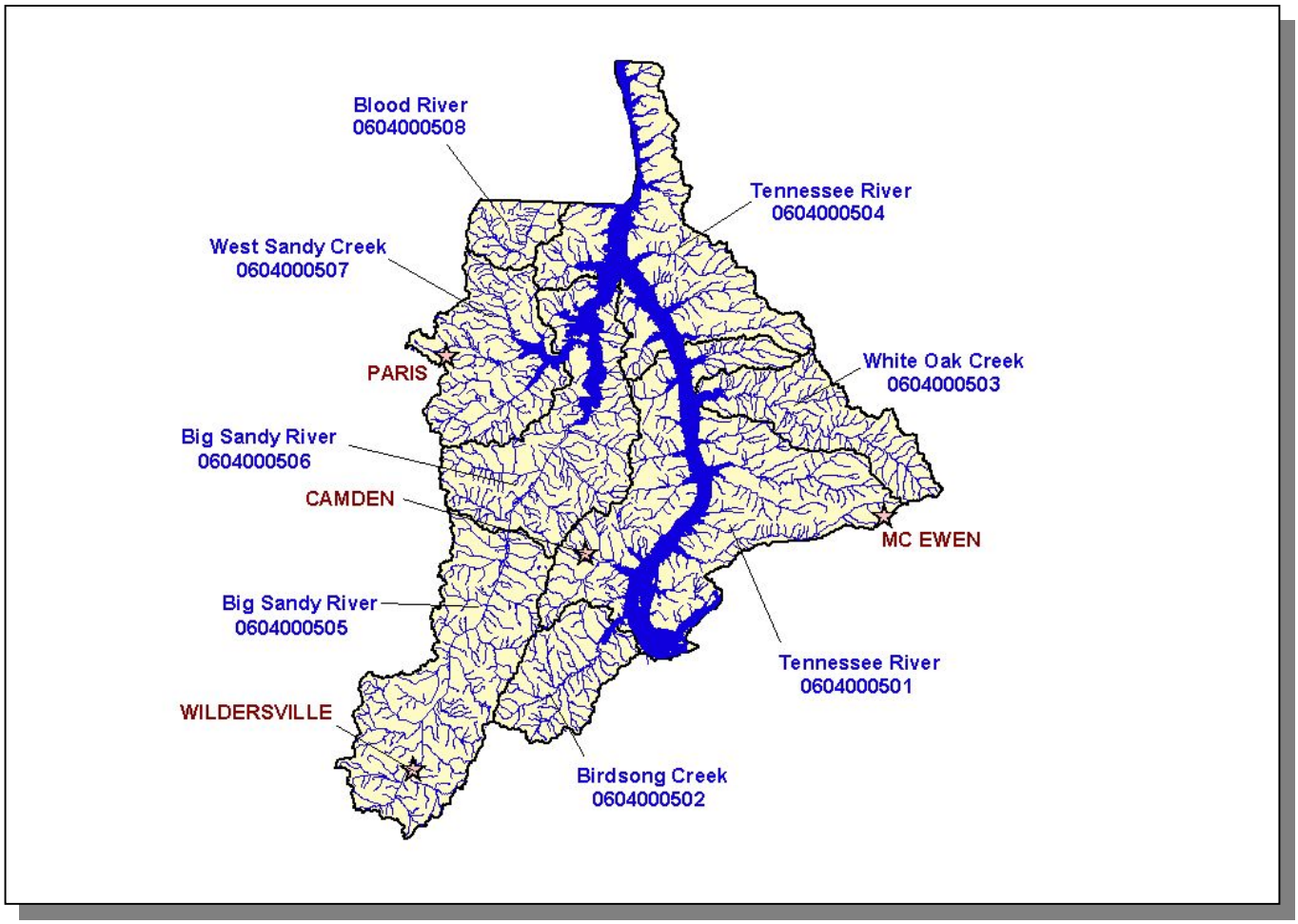

Figure 4-1. The Tennessee Portion of the Tennessee Western Valley (KY Lake) Watershed is Composed of Eight USGS-Delineated Subwatersheds (10-Digit Subwatersheds). *Locations of Camden, McEwen, Paris, and Wildersville are shown for reference.*

4.2. CHARACTERIZATION OF HUC-10 SUBWATERSHEDS. The Watershed Characterization System (WCS) software and data sets provided by EPA Region IV were used to characterize each subwatershed in the Tennessee portion of the Tennessee Western Valley (KY Lake) Watershed.

HUC-10	HUC-12	
0604000501	060400050101 (Tennessee River)	060400050106 (Big Richland Creek)
	060400050102 (Cypress Creek)	060400050107 (Tennessee River)
	060400050103 (Tennessee River)	060400050108 (Turkey Creek)
	060400050104 (Trace Creek)	060400050109 (Cane Creek)
	060400050105 (Little Richland Creek)	
0604000502	060400050201 (Birdsong Creek)	060400050202 (Birdsong Creek)
0604000503	060400050301 (Upper White Oak Creek)	060400050302 (Lower White Oak Creek)
0604000504	060400050401 (Kentucky Lake)	060400050405 (Eagle Creek)
	060400050402 (Hurricane Creek)	060400050406 (Kentucky Lake)
	060400050403 (Leatherwood Creek)	060400050407 (Kentucky Lake)
	060400050404 (Standing Rock Creek)	
0604000505	060400050501 (Big Sandy River)	060400050504 (Big Sandy River)
	060400050502 (Big Sandy River)	060400050505 (Big Sandy River)
	060400050503 (Big Sandy River)	
0604000506	060400050601 (Martin Creek)	060400050603 (Big Sandy River)
	060400050602 (Big Sandy River)	060400050604 (Big Sandy River Outlet)
0604000507	060400050701 (West sandy Creek)	060400050703 (Bailey Fork Creek)
	060400050702 (West Sandy Dyke)	060400050704 (Holly Fork Creek)
0604000508	060400050801 (Blood River	

Table 4-1. HUC-12 Drainage Areas are Nested Within HUC-10 Drainages. *NRCS worked with USGS to delineate the HUC-10 and HUC-12 drainage boundaries.*